

Belimo P1013 US
 Application SN 10/596,263
 Applicant Frank LEHNERT

(3) Amended Claims

1. (Currently amended) Device for controlling an air flow in a ventilating pipe comprising:
 - a) one or more air flaps ~~which can be~~ actuated synchronously and which prevent the air flow in the ventilating pipe in closed position,
 - b) wherein each of the one or more air flaps is rigidly connected to a drive axle and is rotational about said drive axle,
 - c) a fastening web with a pivot bearing for said drive axle of the one or more air flaps,
 - d) means for transmitting force and/or torque to the drive axle connected to ~~the~~ said one or more air flaps,
 - e) wherein said gearing means for transmitting force and/or torque are mounted on the fastening web,
 - f) a fastening web holder fixing the fastening web to the inside of the ventilating pipe wherein said fastening web and said means for transmitting force and/or torque are arranged in the ventilating pipe, on a longitudinally extending plane of symmetry,
 - g) a rotatable connection between said fastening web holder and the fastening web, wherein said rotatable connection is at a distance from said drive axle and parallel to said drive axle ~~wherein the same fastening web is fixed inside the ventilating pipe at an angle β , wherein said angle β of the fastening web is defined relative to a longitudinal axis of the ventilating pipe or relative to a wall of the ventilating pipe, and~~
 - h) ~~wherein said angle β is dependent on the diameter of the ventilating pipe, such that the same fastening web fitted with various air flaps can be used for cross-sectionally differently dimensioned ventilating pipes.~~
2. (Currently amended) Device according to claim 1, characterised in that the fastening web is fixed by the fastening web holder inside the ventilating pipe at ~~the~~ an angle β of 15° to 90°, wherein said angle β of the fastening web is defined relative to a longitudinal axis of the ventilating pipe or

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relative to a wall of the ventilating pipe and said angle β is dependent on the diameter of the ventilating pipe.

3. (Currently amended) Device according to claim 1 or 2, characterised in that the fastening web is fastened by a the fastening web holder ~~so as to be detachable at one end and~~ so as to be pivotable ~~in the said longitudinally extending plane of symmetry on the pipe wall.~~
4. (Currently amended) Device according to claim 1, characterised in that the fastening web extends over an entire cross-section of the ventilating pipe and rests at a free end with a support face on a wall-of the pipe.
5. (Currently amended) Device according to claim 1 4, characterised in that the fastening web ~~(16)~~ is detachably fastened at both ends to the inside of the pipe wall.
6. (Previously presented) Device according to claim 1, characterised in that an actuator is integrated at least partially into the fastening web, for rotational movement of the drive axle.
7. (Previously presented) Device according to claim 6, characterised in that the actuator acts on the drive axle by way of a reducing gear.
8. (Previously presented) Device according to claim 1, characterised in that control electronics ~~(26)~~ are installed at least partially in the fastening web.
9. (Previously presented) Device according to claim 1, characterised in that the fastening web is round or prismatic and is provided with rounded edges to avoid a significant drop in pressure in the ventilating pipe and to avoid the formation of undesired turbulence.
10. (Previously presented) Device according to claim 1, characterised in that a fastening point is provided, in each case, on the drive axle ~~(28)~~ on either side of the fastening web for the one or more air flaps.
11. (Previously presented) Device according to claim 1, characterised in that the drive axle of the one or more air flaps are lengthened for centring thereof on either side of the wall of the pipe and are supported there.

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12. (Previously presented) Device according to claim 1, characterised in that the one or more air flaps are blade-shaped and can be folded over parallel to the drive axle ~~(28)~~.
13. (Previously presented) Device according to claim 12, characterised in that the blade-shaped air flap has a gap with three-dimensional sealing hoods for sealing until the closed position is reached.
14. (Previously presented) Device according to claim 12, characterised in that the blade-shaped air flap is configured with a continuous gap for the fastening web, in one piece with a gap or with joined halves with a gap.
15. (Previously presented) Device according to claim 1, characterised in that a monitor ~~(24)~~ visually displays the flap position.
16. (Previously presented) Device according to claim 1, characterised by measuring cells for measuring a differential pressure a volume flow and/or a position of the air flap, wherein said measuring cells are arranged on the fastening web.
17. (Canceled)
18. (Canceled)
19. (Canceled)
20. (New) Device according to claim 1, characterised in that the bearing for the drive axle is arranged at an end of the fastening web at a distance to said rotational connection between said fastening web holder and the fastening web.
21. (New) Device according to claim 1, characterized in that the fastening web is an elongate bar-shaped stiff element with a cross-sectional shape that is flat.
22. (New) Device according to claim 1, characterized in that the fastening web has a contour which is a surface of a housing which contains the gearing means and an actuator.
23. (New) Device according to claim 1, characterized by a locking means for locking said rotatable connection at a rotational position during operation of the air flaps for fixing the same fastening web

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inside the ventilating pipe at an angle β fixed relative to a longitudinal axis of the ventilating pipe and depending on the diameter of the ventilating pipe.

24. (New) Fastening web for a device for controlling an air flow in a ventilating pipe,
- a) wherein the fastening web comprises a pivot bearing for a drive axle for rigidly connecting one or more air flaps and for rotating the one or more air flaps about said drive axle,
 - b) means in the fastening web for transmitting force and/or torque to the said drive axle,
 - c) a holder for rotatably mounting the fastening web to wall inside of a ventilating pipe and for fixing the fastening web in any desired rotational position on a longitudinally extending plane of symmetry of a pipe at an angle β dependent on the diameter of the ventilating pipe, such that the same fastening web fitted with various air flaps can be used for cross-sectionally differently dimensioned ventilating pipes.
25. (New) A system adaptable for controlling an air flow in cross-sectionally differently dimensioned ventilating pipes comprising:
- a) at least two different air flaps having various dimensions for said cross-sectionally differently dimensioned ventilating pipes so as to prevent the air flow in the ventilating pipe in a closed position,
 - b) a fastening web with a pivot bearing for a drive axle of said air flaps,
 - c) means for transmitting force and/or torque to said drive axle, wherein said means for transmitting force and/or torque are mounted on the fastening web,
 - d) wherein said fastening web and said means for transmitting force and/or torque are arranged in the ventilating pipe, on a longitudinally extending plane of symmetry,
 - e) wherein the two different air flaps are alternatively fixable to the drive axle depending on the cross-section of the ventilating pipe,
 - f) a fastening web holder fixable to the inside of the ventilating pipe for fixing the fastening web in the ventilating pipe,

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- g) a rotatable connection between said fastening web holder and the fastening web, wherein said rotatable connection is at a distance from said drive axle and parallel to said drive axle,
- h) wherein each of the one or more air flaps is rigidly connectable to said drive axle and is rotational about said drive axle,
- i) wherein the fastening web is fixable inside the ventilating pipe such that the same fastening web fitted with various air flaps can be used for cross-sectionally differently dimensioned ventilating pipes.